

# Appendix B.2

## WCDMA Band II&IV&V



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### ANT31

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	23.72	20.72	33	PASS
Band II	9400	23.81	20.81	33	PASS
Band II	9538	23.80	20.80	33	PASS
Band IV	1312	23.96	20.96	30	PASS
Band IV	1413	23.98	20.98	30	PASS
Band IV	1513	23.95	20.95	30	PASS

#### ANT41

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.98	17.33	38.5	PASS
Band V	4182	24.00	17.35	38.5	PASS
Band V	4233	23.99	17.34	38.5	PASS



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## Peak-to-Average Ratio

### Test Result

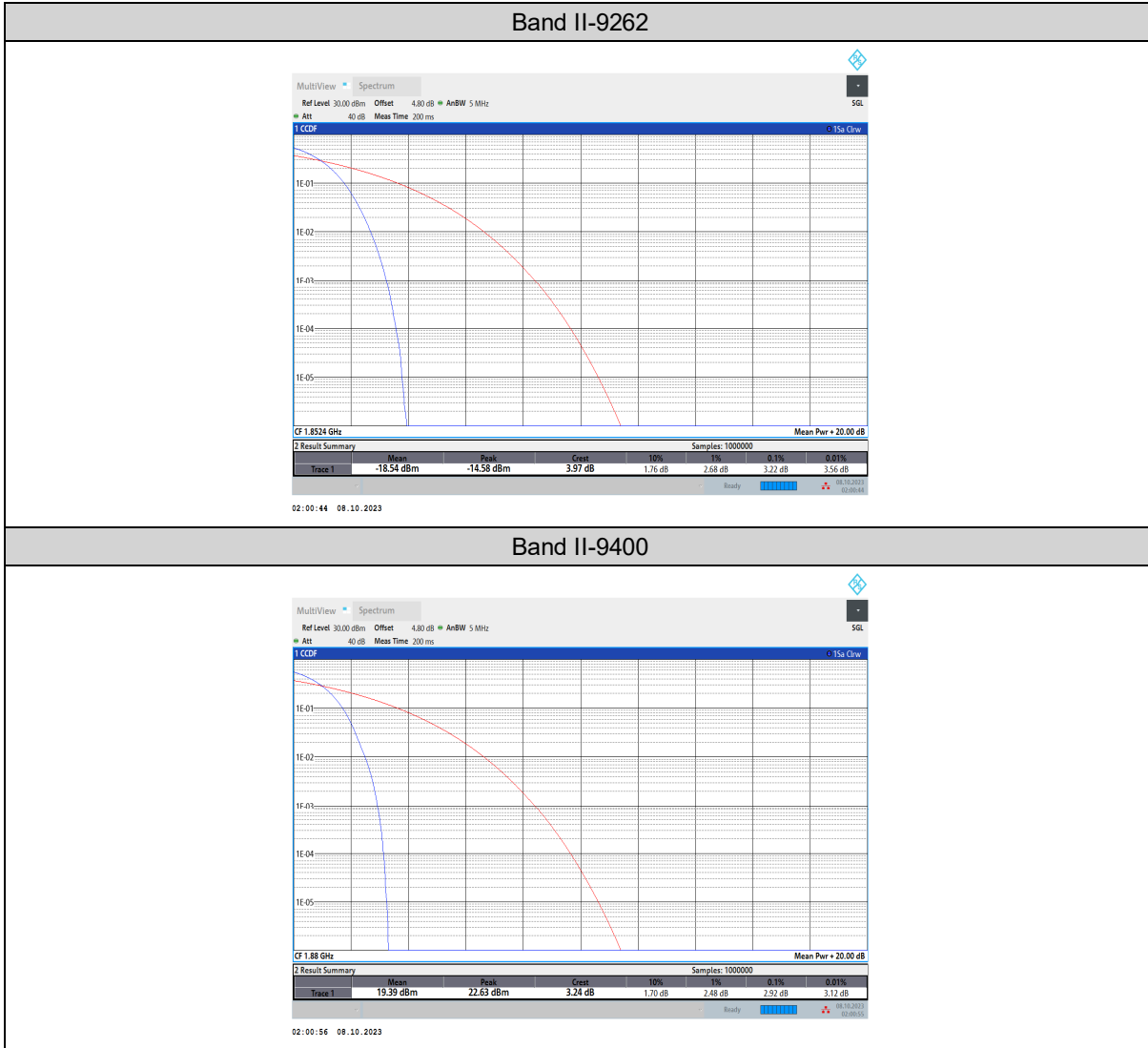
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.22	13	PASS
Band II	9400	2.92	13	PASS
Band II	9538	2.74	13	PASS
Band IV	1312	2.98	13	PASS
Band IV	1413	3.06	13	PASS
Band IV	1513	2.78	13	PASS
Band V	4132	2.7	13	PASS
Band V	4182	2.96	13	PASS
Band V	4233	2.92	13	PASS



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Test Graphs

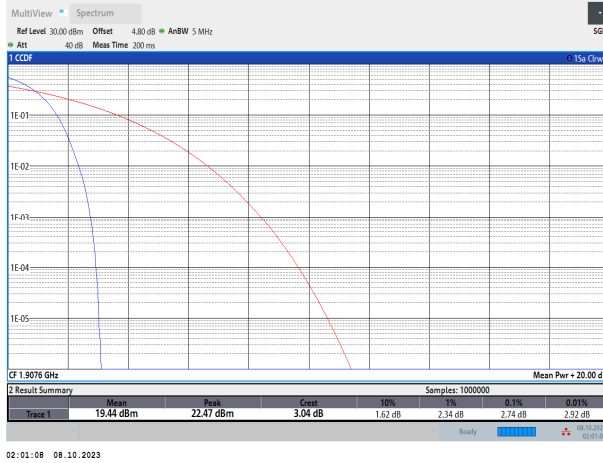


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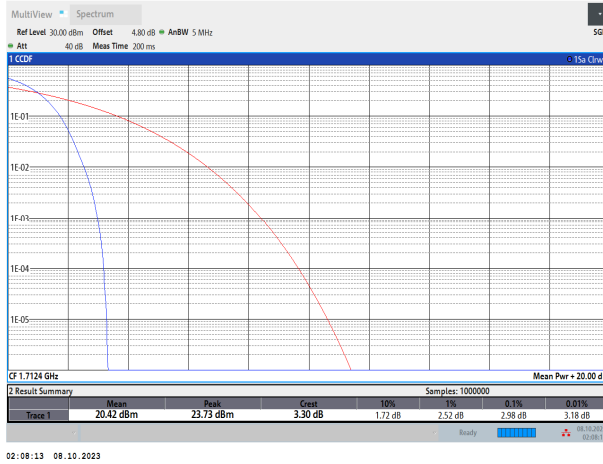
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Band II-9538



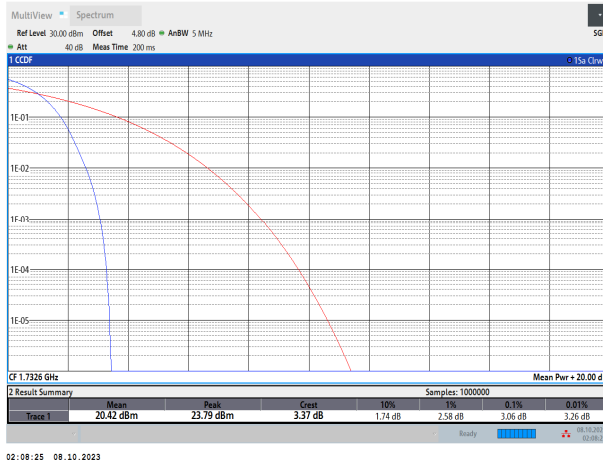
Band IV-1312



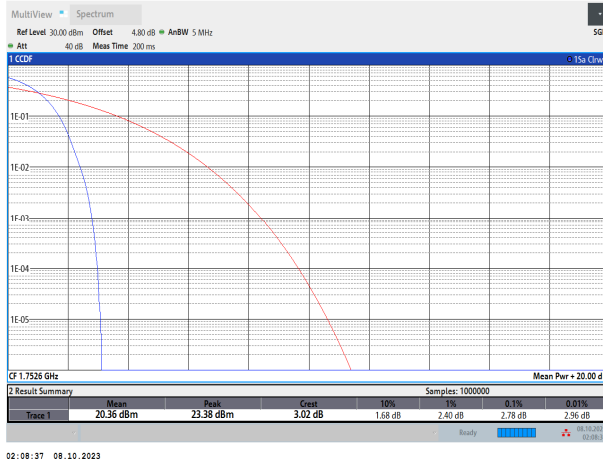
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Band IV-1413



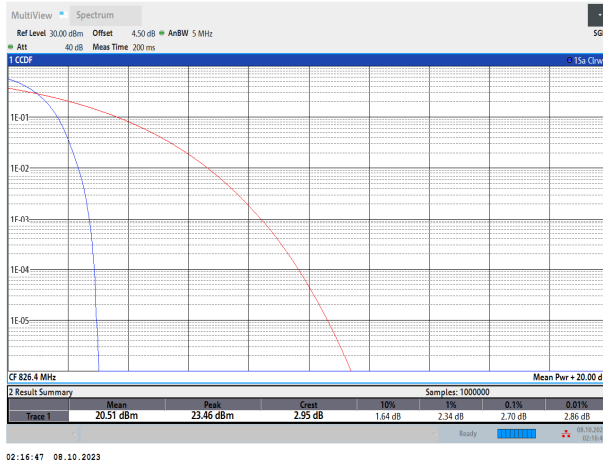
Band IV-1513



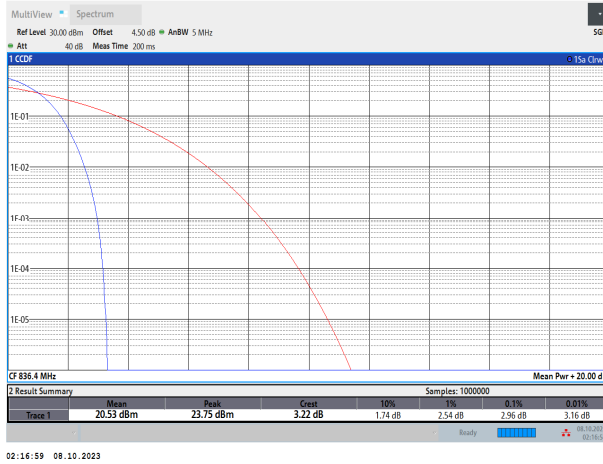
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Band V-4132

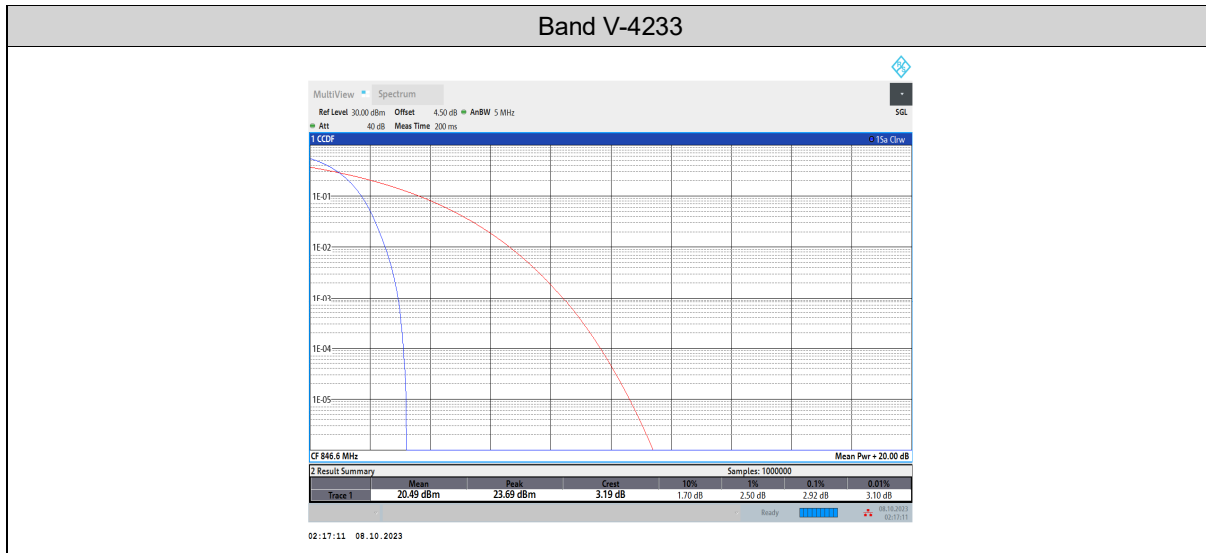


Band V-4182



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

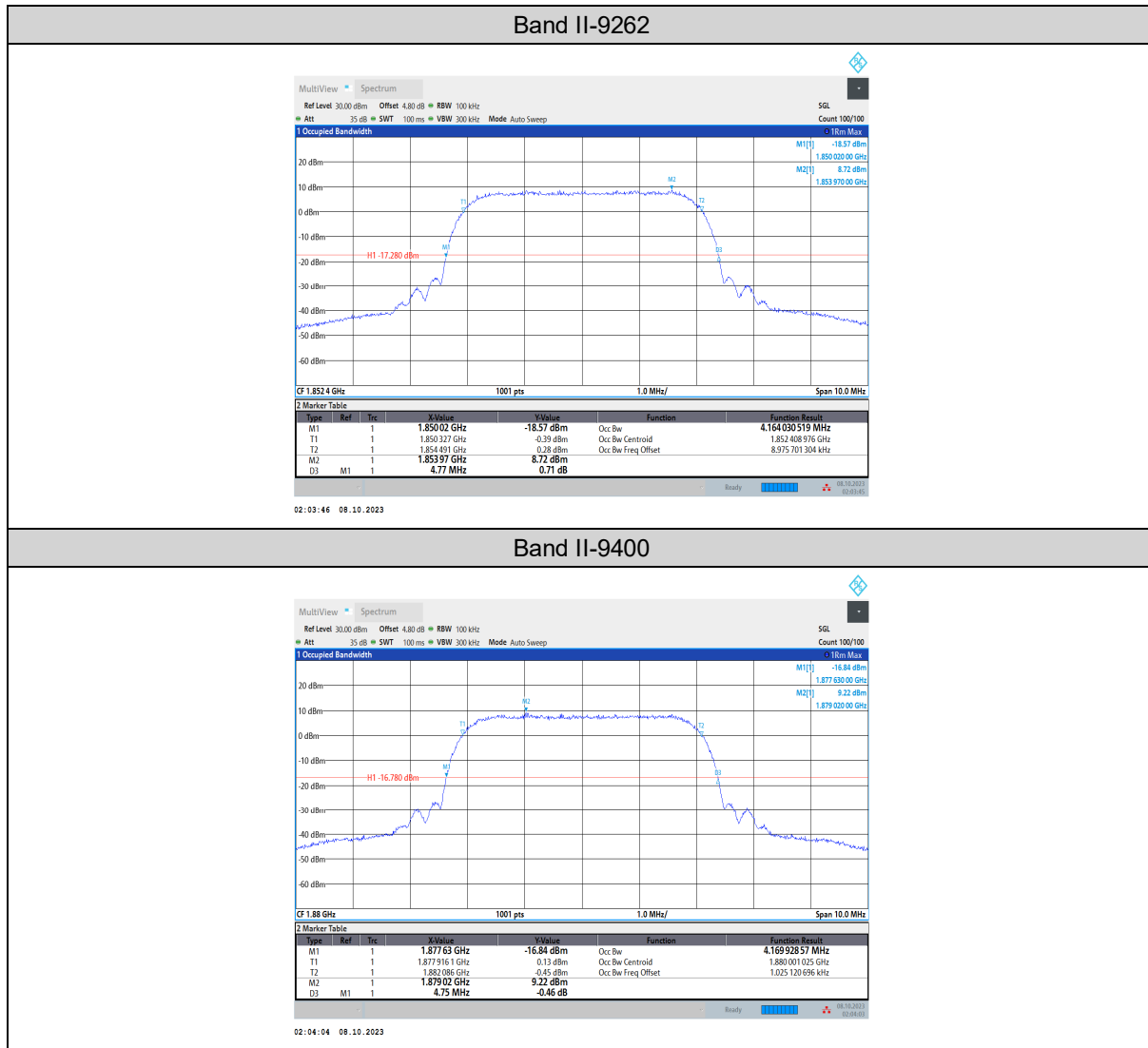
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band II	9262	4.164	4.77	---	PASS
Band II	9400	4.17	4.75	---	PASS
Band II	9538	4.172	4.78	---	PASS
Band IV	1312	4.147	4.74	---	PASS
Band IV	1413	4.148	4.73	---	PASS
Band IV	1513	4.15	4.76	---	PASS
Band V	4132	4.136	4.74	---	PASS
Band V	4182	4.139	4.74	---	PASS
Band V	4233	4.143	4.72	---	PASS



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Test Graphs

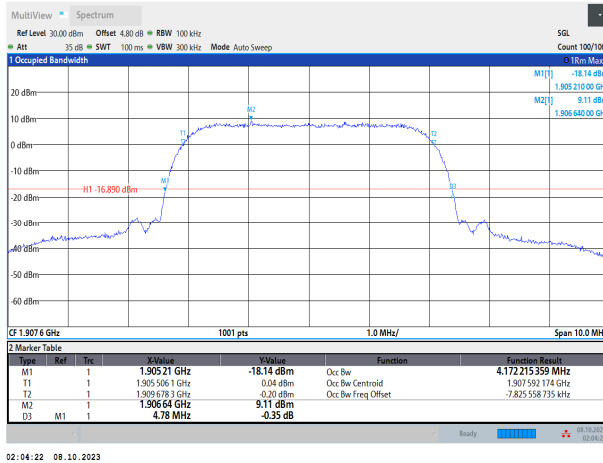


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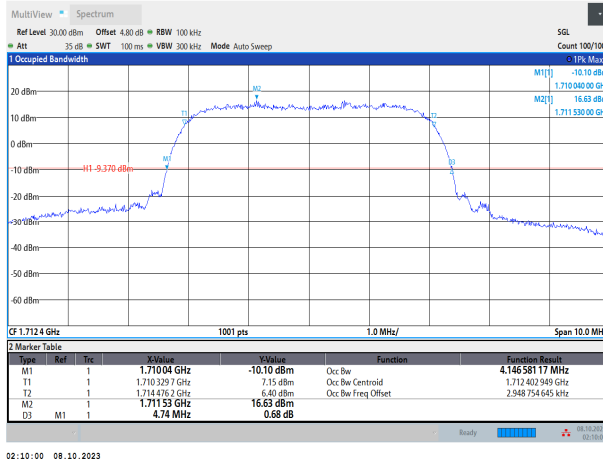
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Band II-9538



Band IV-1312

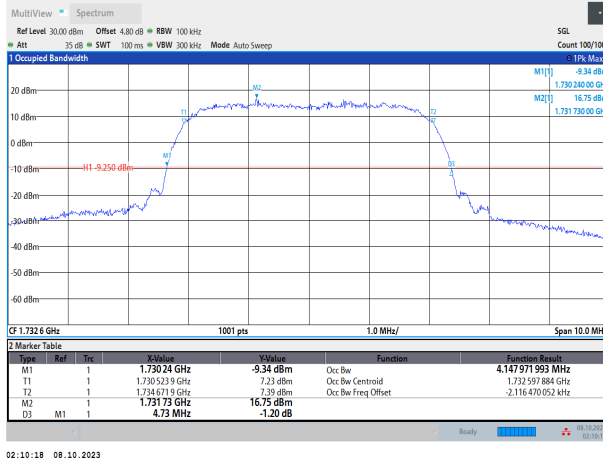


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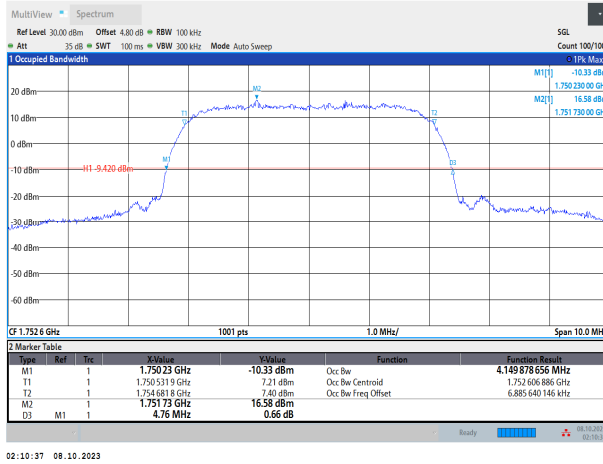
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Band IV-1413



Band IV-1513

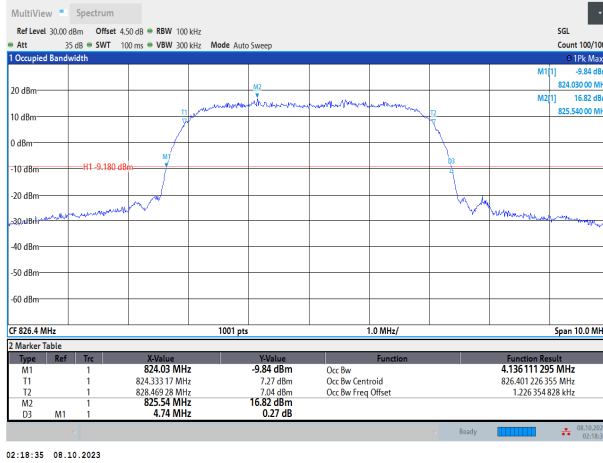


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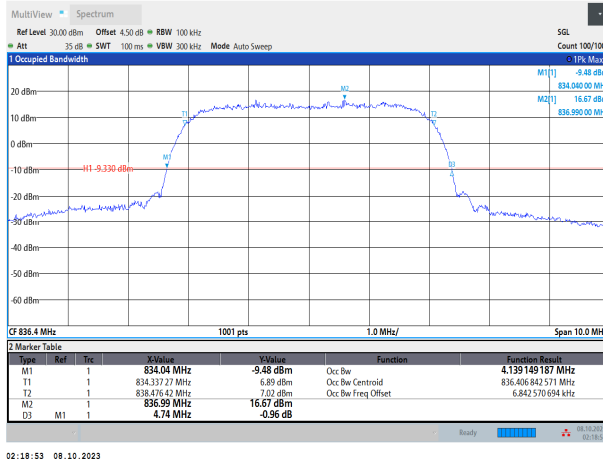
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Band V-4132



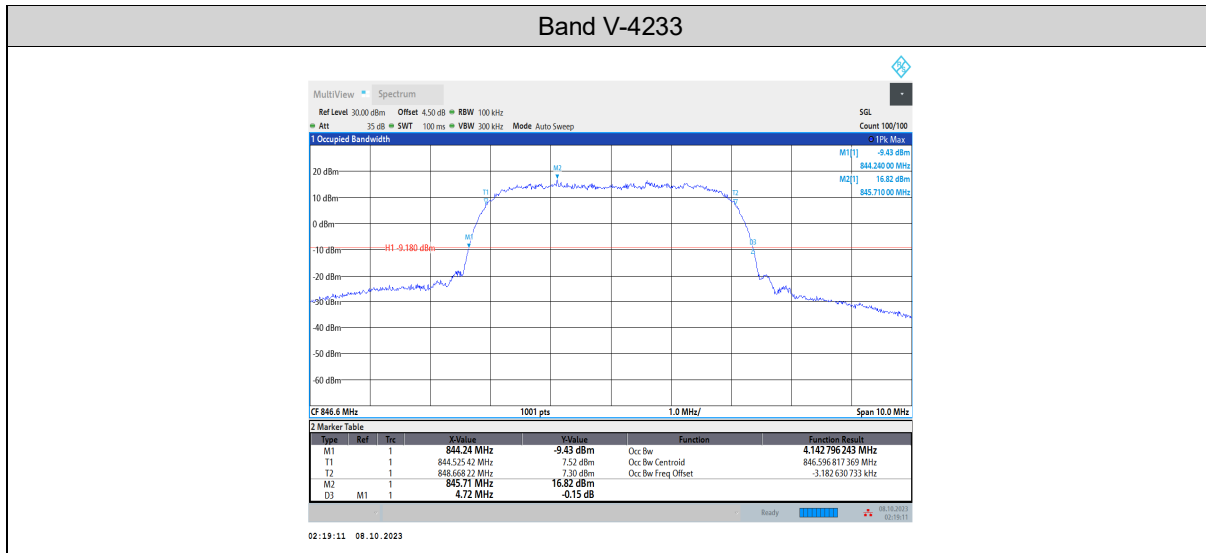
Band V-4182



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## Band Edge

## Test Graphs

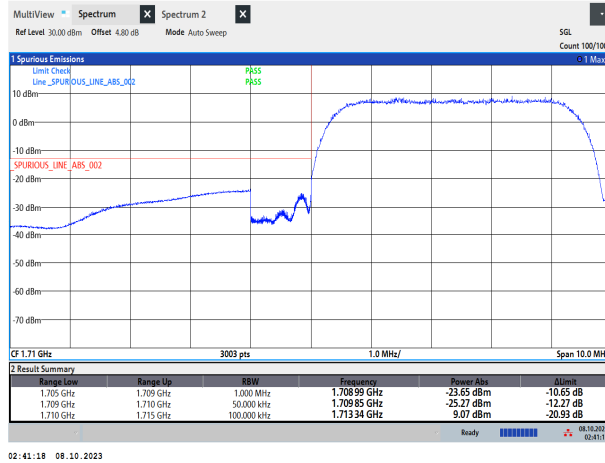


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Band IV-1312



Band IV-1513

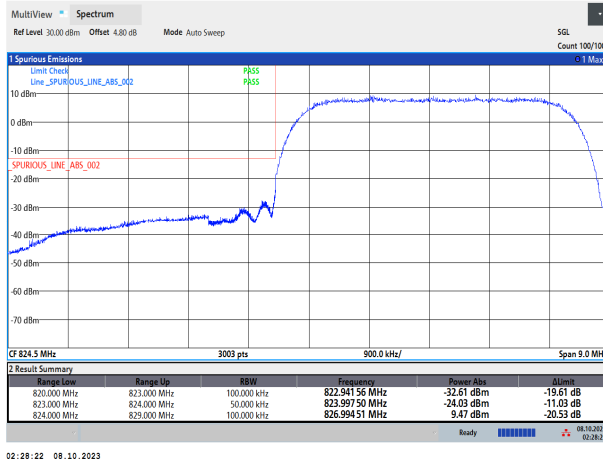


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Band V-4132



Band V-4233



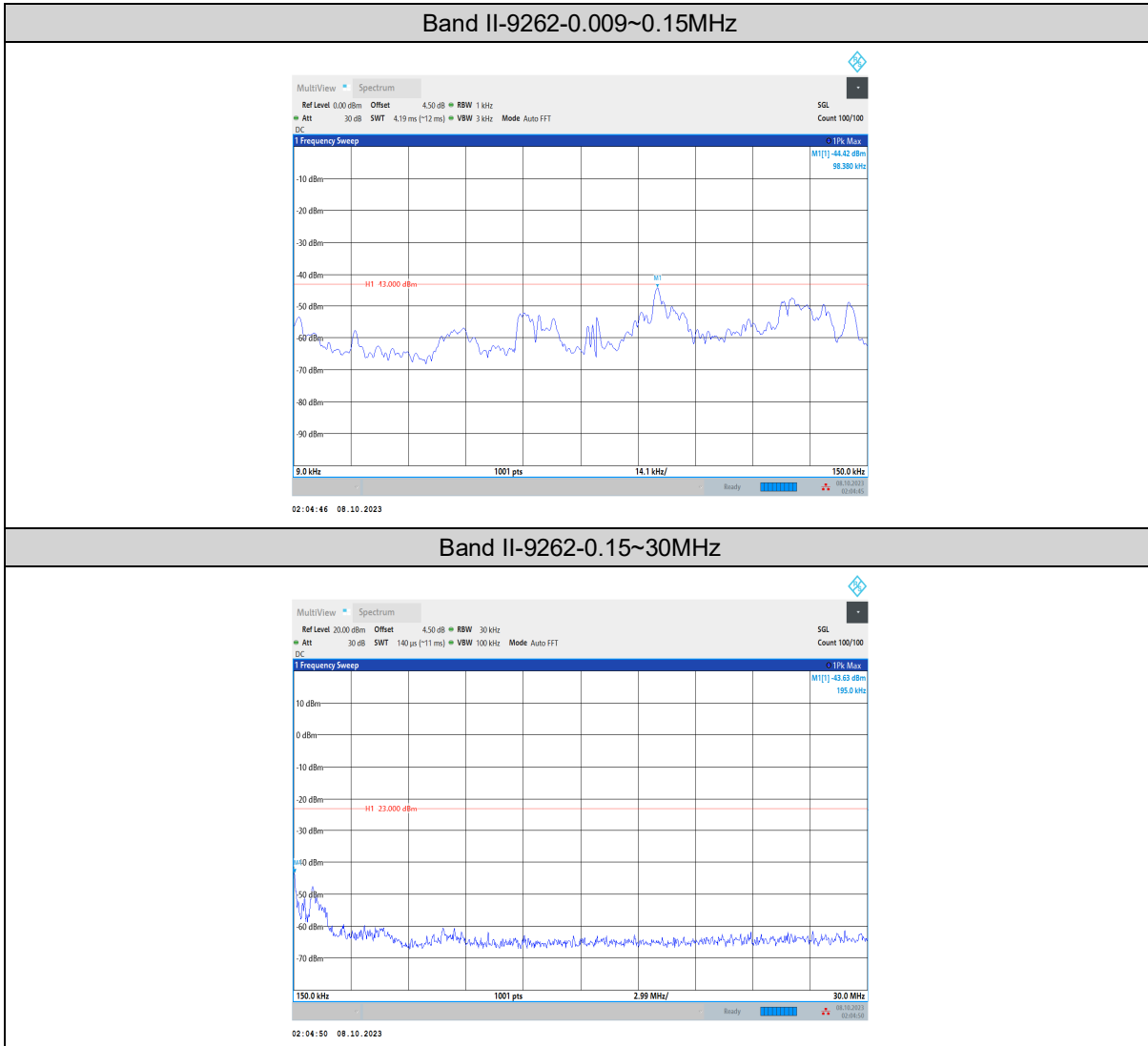
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## Conducted Spurious Emission

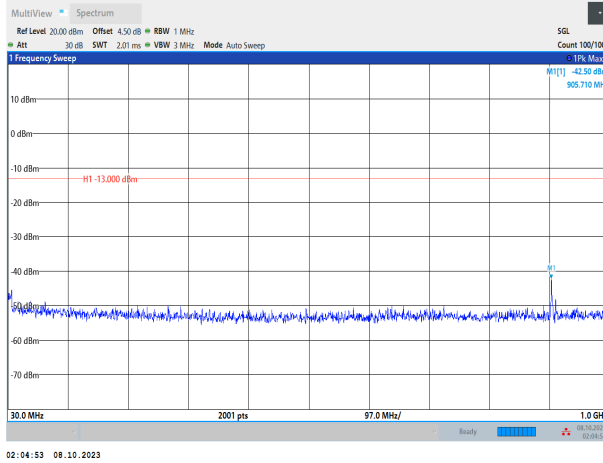
### Test Graphs



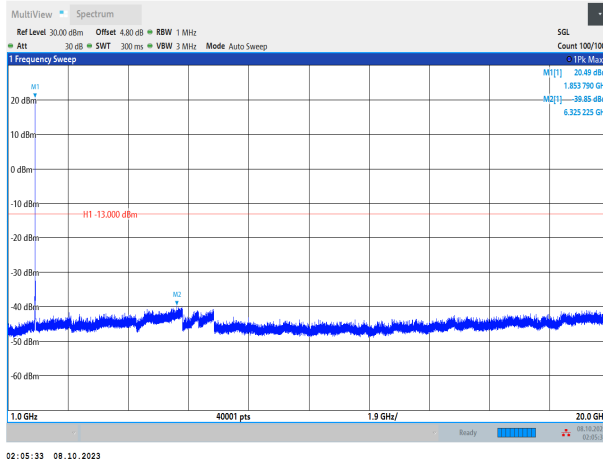
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Band II-9262-30~1000MHz



Band II-9262-1000~20000MHz

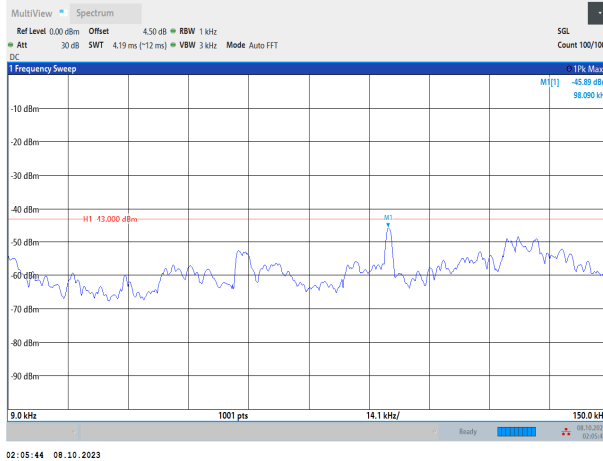


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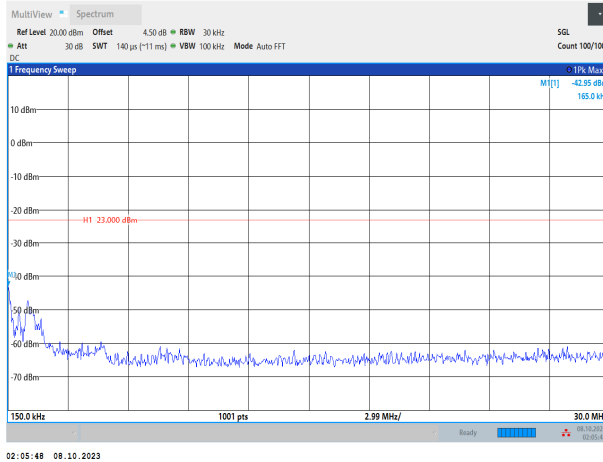
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Band II-9400-0.009~0.15MHz



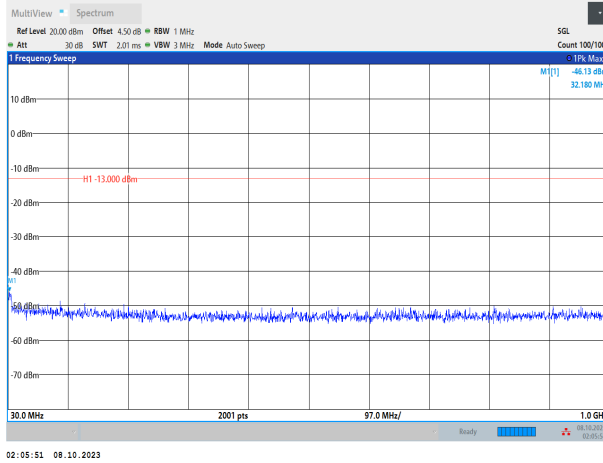
Band II-9400-0.15~30MHz



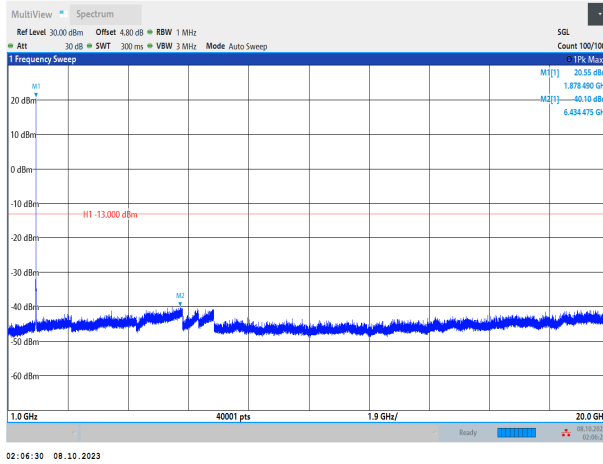
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Band II-9400-30~1000MHz



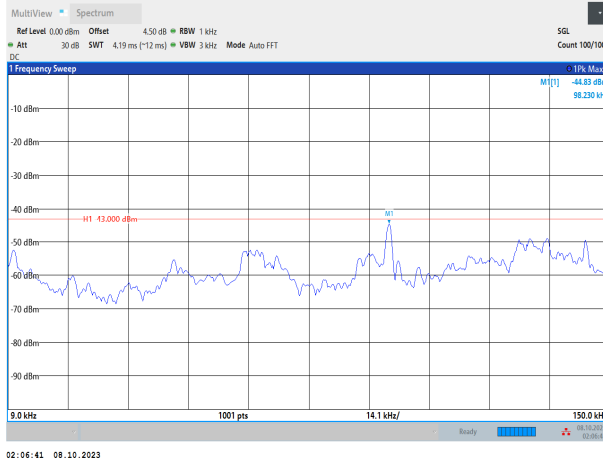
Band II-9400-1000~20000MHz



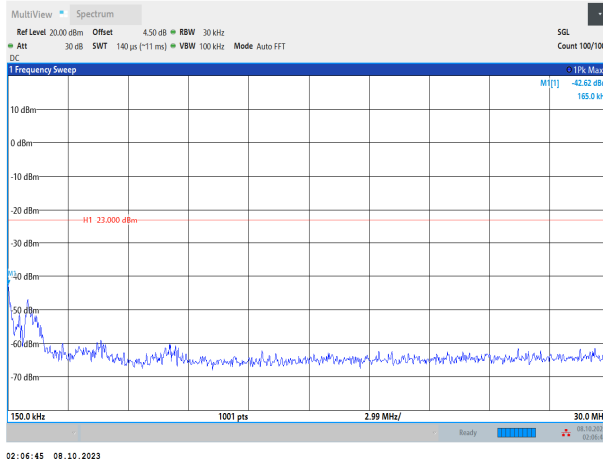
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Band II-9538-0.009~0.15MHz



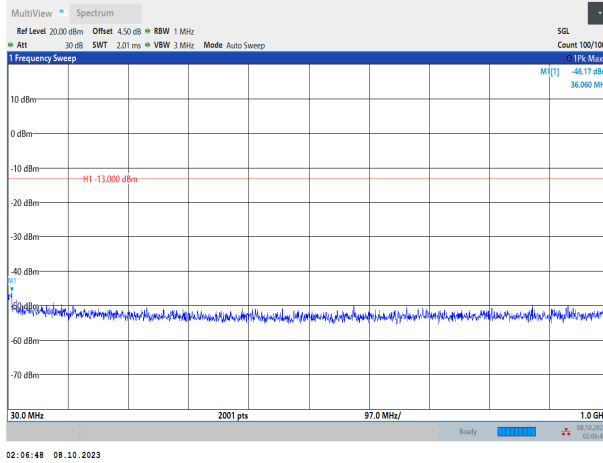
Band II-9538-0.15~30MHz



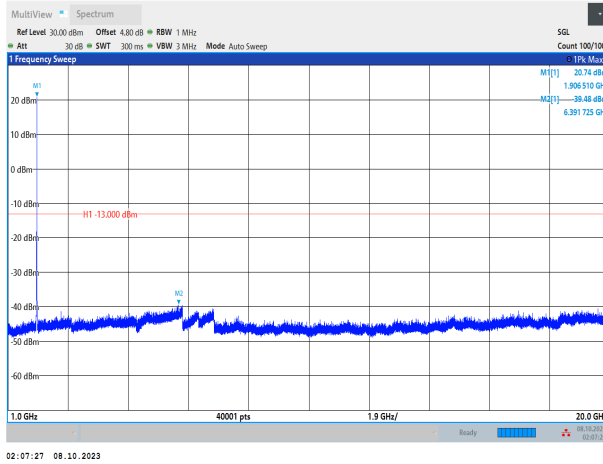
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Band II-9538-30~1000MHz



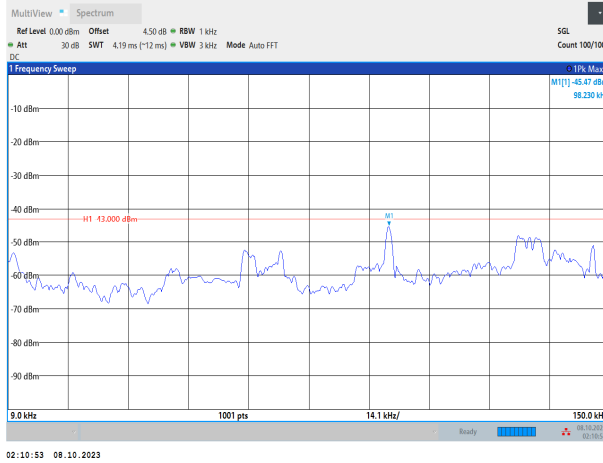
Band II-9538-1000~20000MHz



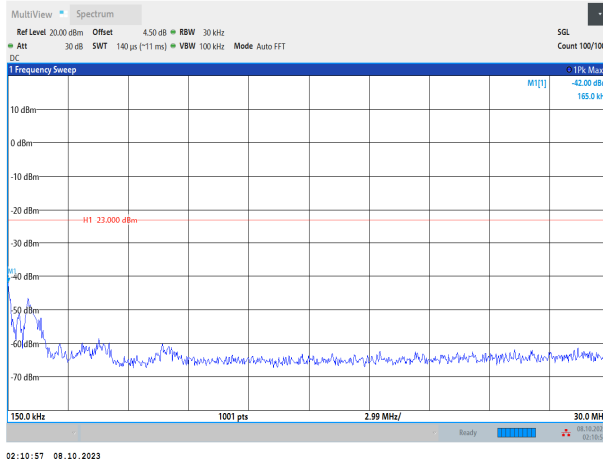
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Band IV-1312-0.009~0.15MHz



Band IV-1312-0.15~30MHz

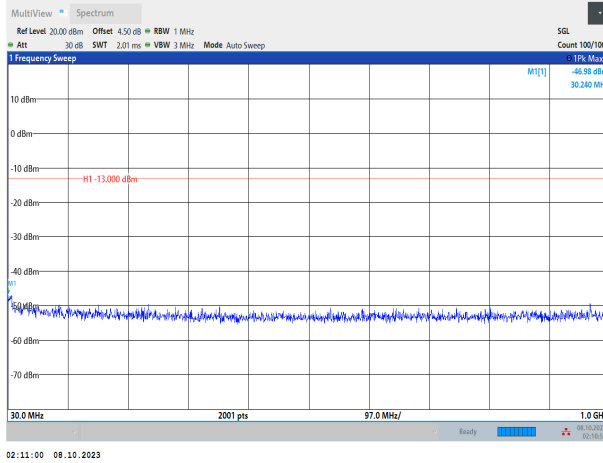


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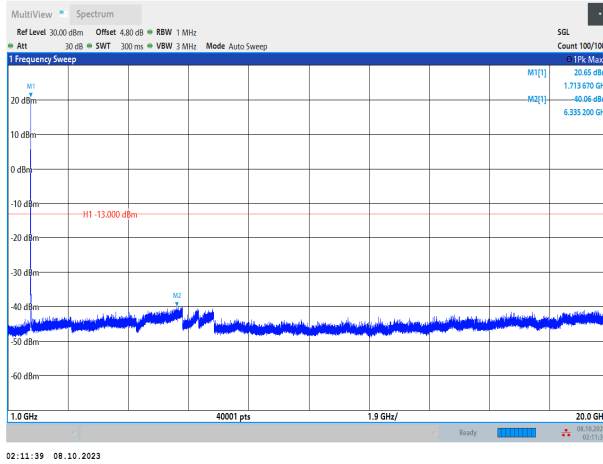
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Band IV-1312-30~1000MHz



Band IV-1312-1000~20000MHz

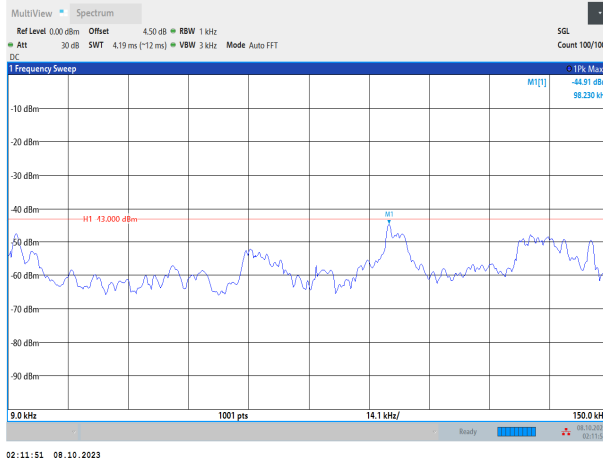


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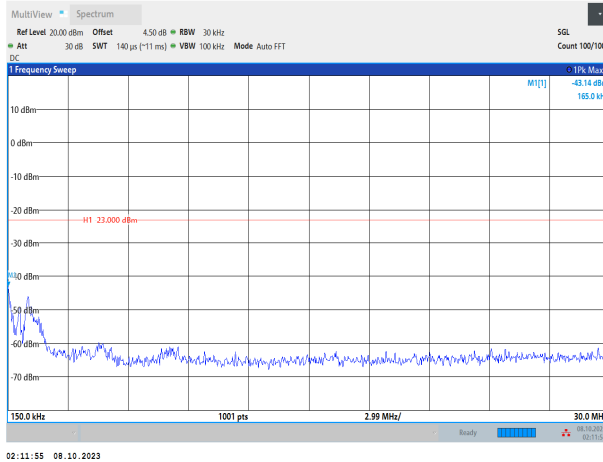
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Band IV-1413-0.009~0.15MHz



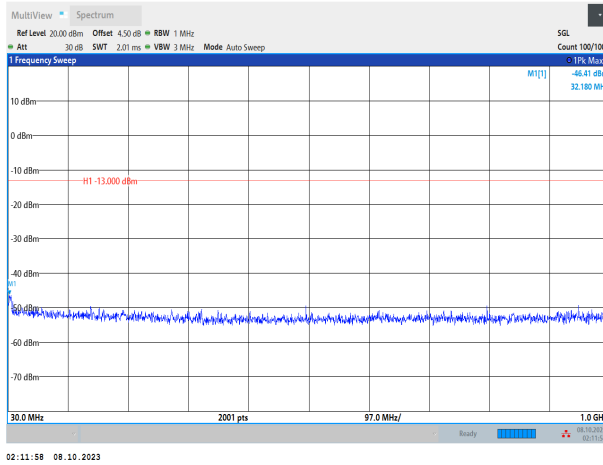
Band IV-1413-0.15~30MHz



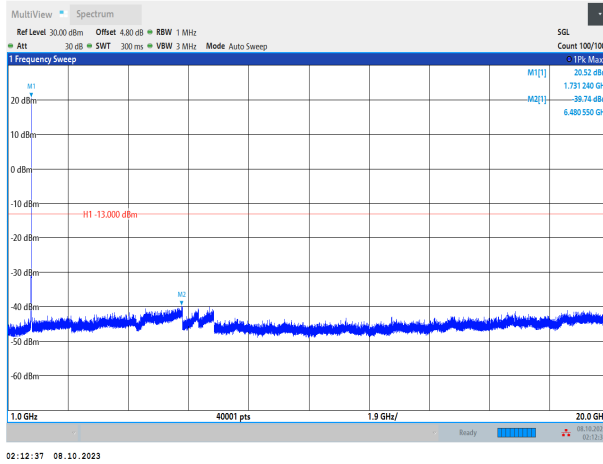
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Band IV-1413-30~1000MHz



Band IV-1413-1000~20000MHz

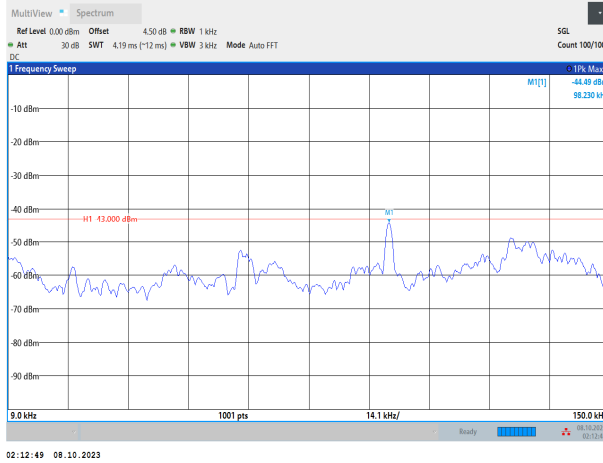


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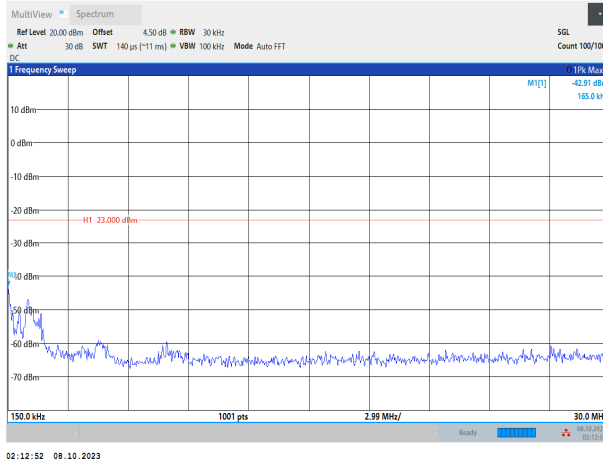
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Band IV-1513-0.009~0.15MHz



Band IV-1513-0.15~30MHz

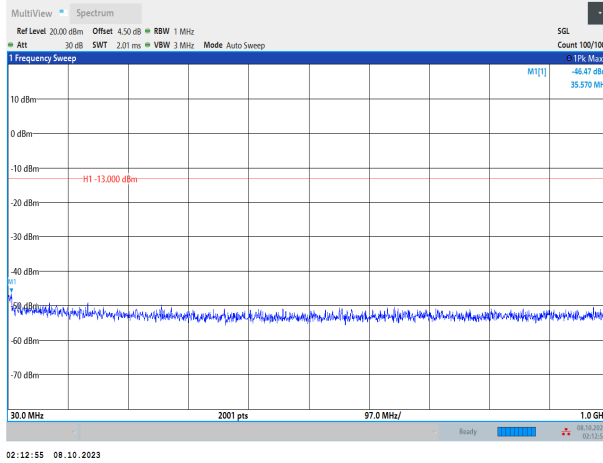


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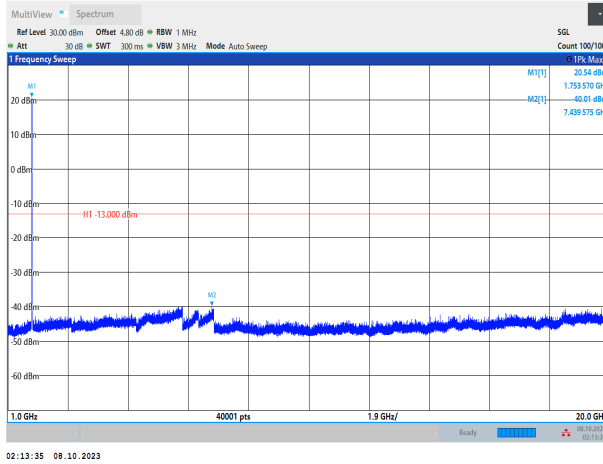
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Band IV-1513-30~1000MHz



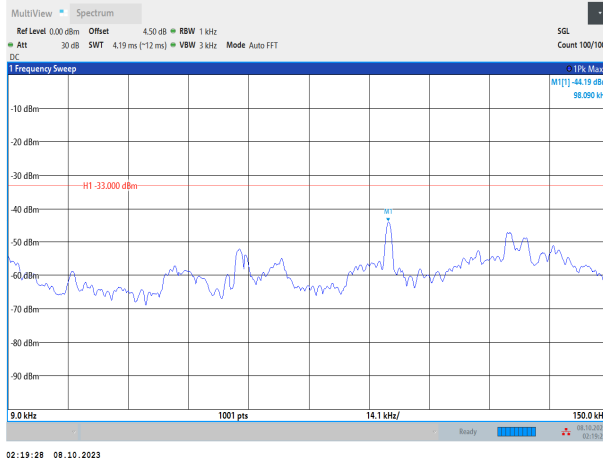
Band IV-1513-1000~20000MHz



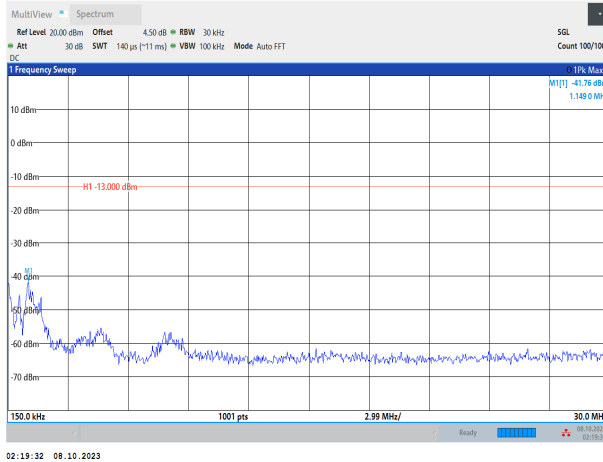
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Band V-4132-0.009~0.15MHz



Band V-4132-0.15~30MHz

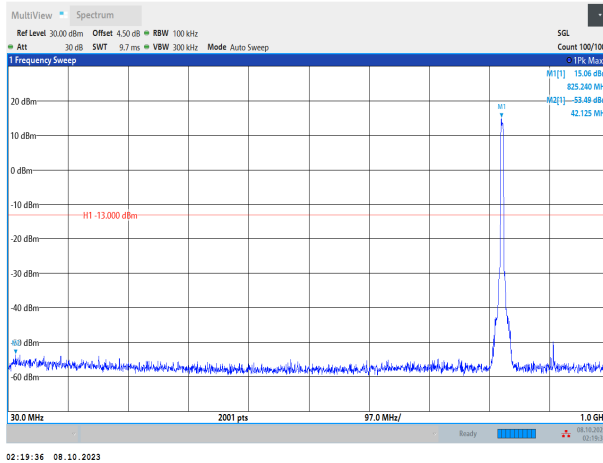


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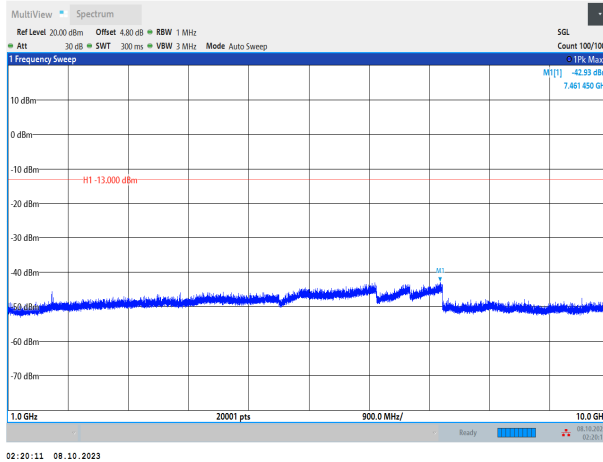
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Band V-4132-30~1000MHz



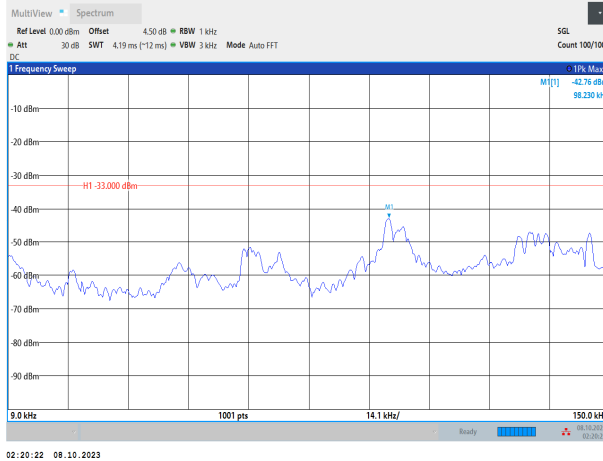
Band V-4132-1000~10000MHz



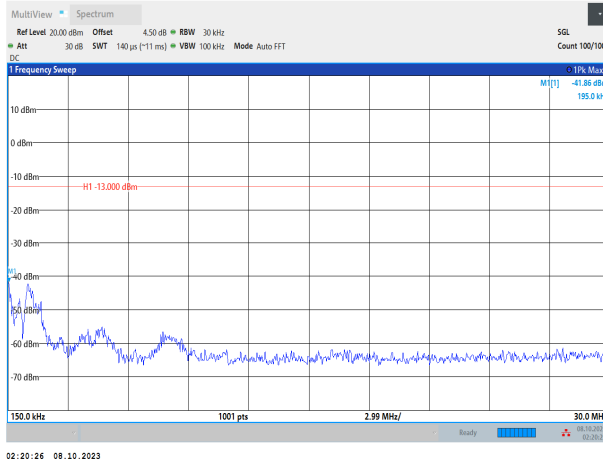
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Band V-4182-0.009~0.15MHz



Band V-4182-0.15~30MHz



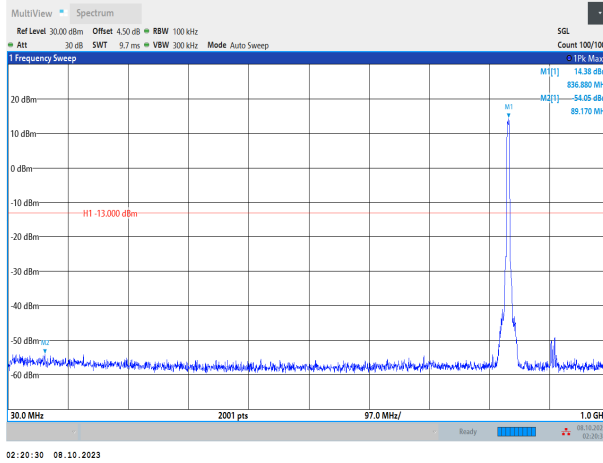
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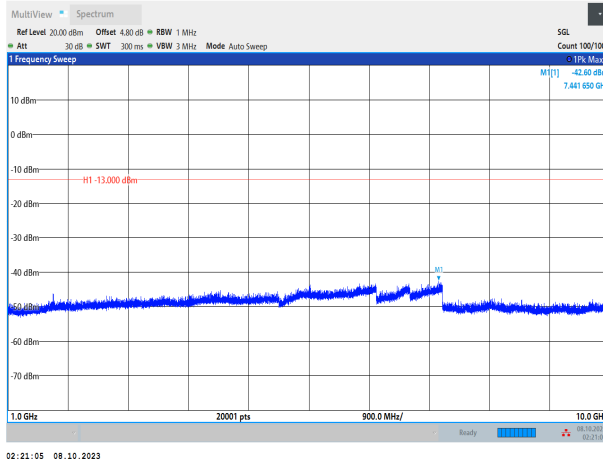
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Band V-4182-30~1000MHz



Band V-4182-1000~10000MHz

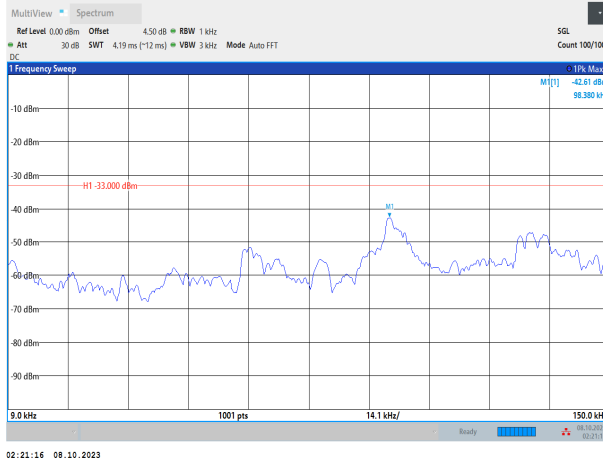


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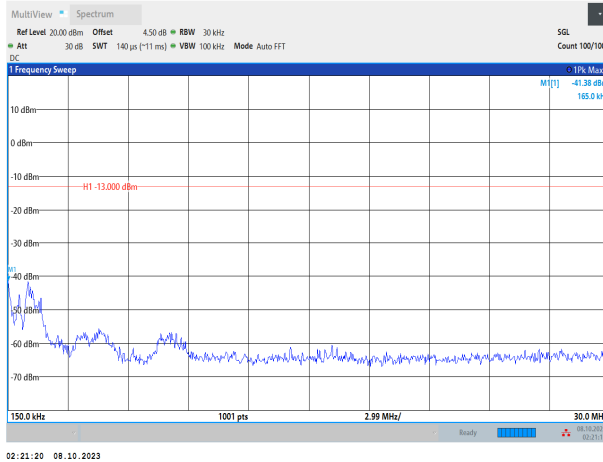
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Band V-4233-0.009~0.15MHz



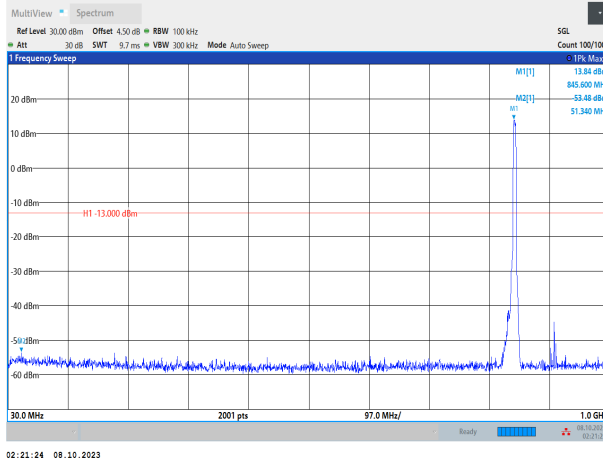
Band V-4233-0.15~30MHz



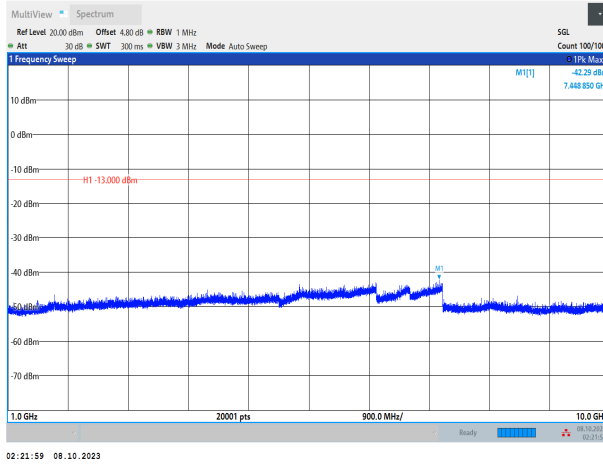
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Band V-4233-30~1000MHz



Band V-4233-1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = WCDMA Band II\_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	39.56	-45.52	28.81	-72.42	-13.00	59.42	Horizontal
2	5557.2000	39.38	-45.14	32.61	-68.41	-13.00	55.41	Horizontal
3	7409.6000	36.83	-43.38	36.35	-65.47	-13.00	52.47	Horizontal
4	9262.0000	30.78	-40.23	36.80	-67.91	-13.00	54.91	Horizontal
5	11114.4000	25.12	-37.88	38.71	-69.31	-13.00	56.31	Horizontal
6	13917	26.02	-35.50	40.75	-63.99	-13.00	50.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	39.72	-45.52	28.81	-72.26	-13.00	59.26	Vertical
2	5557.2000	39.16	-45.14	32.61	-68.63	-13.00	55.63	Vertical
3	7409.6000	36.93	-43.38	36.35	-65.37	-13.00	52.37	Vertical
4	9262.0000	31.40	-40.23	36.80	-67.29	-13.00	54.29	Vertical
5	11114.4000	25.50	-37.88	38.71	-68.93	-13.00	55.93	Vertical
6	13914.75	26.27	-35.49	40.75	-63.73	-13.00	50.73	Vertical



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**Test Band = WCDMA Band II\_ TM1**  
**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	40.00	-45.75	28.86	-72.15	-13.00	59.15	Horizontal
2	5640.0000	39.30	-44.98	32.63	-68.31	-13.00	55.31	Horizontal
3	7520.0000	37.08	-43.10	36.61	-64.67	-13.00	51.67	Horizontal
4	9400.0000	31.27	-39.83	37.06	-66.76	-13.00	53.76	Horizontal
5	11280.0000	27.18	-37.41	38.73	-66.77	-13.00	53.77	Horizontal
6	13962	26.65	-35.62	40.83	-63.40	-13.00	50.40	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	39.21	-45.75	28.86	-72.94	-13.00	59.94	Vertical
2	5640.0000	37.69	-44.98	32.63	-69.92	-13.00	56.92	Vertical
3	7520.0000	37.46	-43.10	36.61	-64.29	-13.00	51.29	Vertical
4	9400.0000	31.52	-39.83	37.06	-66.51	-13.00	53.51	Vertical
5	11280.0000	27.18	-37.41	38.73	-66.77	-13.00	53.77	Vertical
6	13831.5	26.67	-36.10	40.60	-64.09	-13.00	51.09	Vertical



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**Test Band = WCDMA Band II\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	41.06	-45.97	28.92	-71.26	-13.00	58.26	Horizontal
2	5722.8000	38.55	-44.83	32.64	-68.89	-13.00	55.89	Horizontal
3	7630.0000	36.73	-42.99	36.65	-64.87	-13.00	51.87	Horizontal
4	9538.0000	31.46	-40.01	37.32	-66.49	-13.00	53.49	Horizontal
5	11445.6000	27.26	-37.34	38.74	-66.60	-13.00	53.60	Horizontal
6	14441.25	25.06	-34.82	41.08	-63.94	-13.00	50.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	40.24	-45.97	28.92	-72.08	-13.00	59.08	Vertical
2	5722.8000	38.87	-44.83	32.64	-68.57	-13.00	55.57	Vertical
3	7630.0000	37.41	-42.99	36.65	-64.19	-13.00	51.19	Vertical
4	9538.0000	31.84	-40.01	37.32	-66.11	-13.00	53.11	Vertical
5	11445.6000	26.76	-37.34	38.74	-67.10	-13.00	54.10	Vertical
6	13374.75	25.50	-36.45	39.77	-66.44	-13.00	53.44	Vertical



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**Test Band = WCDMA Band IV\_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8000	40.55	-46.27	28.56	-72.43	-13.00	59.43	Horizontal
2	5137.2000	38.56	-45.34	31.73	-70.31	-13.00	57.31	Horizontal
3	6849.6000	37.79	-44.14	34.93	-66.68	-13.00	53.68	Horizontal
4	8562.0000	34.20	-41.44	36.52	-65.98	-13.00	52.98	Horizontal
5	10274.4000	29.72	-39.19	38.34	-66.40	-13.00	53.40	Horizontal
6	13712.25	27.17	-36.19	40.38	-63.90	-13.00	50.90	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8000	40.50	-46.27	28.56	-72.48	-13.00	59.48	Vertical
2	5137.2000	38.29	-45.34	31.73	-70.58	-13.00	57.58	Vertical
3	6849.6000	38.52	-44.14	34.93	-65.95	-13.00	52.95	Vertical
4	8562.0000	34.21	-41.44	36.52	-65.97	-13.00	52.97	Vertical
5	10274.4000	28.94	-39.19	38.34	-67.18	-13.00	54.18	Vertical
6	13844.25	26.29	-35.98	40.62	-64.33	-13.00	51.33	Vertical



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**Test Band = WCDMA Band IV\_ TM1**  
**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2000	41.73	-46.27	28.58	-71.22	-13.00	58.22	Horizontal
2	5197.8000	38.96	-45.28	31.88	-69.71	-13.00	56.71	Horizontal
3	6930.4000	37.99	-43.93	35.08	-66.13	-13.00	53.13	Horizontal
4	8663.0000	34.12	-41.56	36.47	-66.23	-13.00	53.23	Horizontal
5	10395.6000	28.07	-39.01	38.40	-67.81	-13.00	54.81	Horizontal
6	14502.75	24.76	-34.85	41.10	-64.25	-13.00	51.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2000	42.03	-46.27	28.58	-70.92	-13.00	57.92	Vertical
2	4431.75	41.49	-45.79	30.14	-69.42	-13.00	56.42	Vertical
3	5197.8000	38.58	-45.28	31.88	-70.09	-13.00	57.09	Vertical
4	6930.4000	38.05	-43.93	35.08	-66.07	-13.00	53.07	Vertical
5	8663.0000	34.33	-41.56	36.47	-66.02	-13.00	53.02	Vertical
6	10395.6000	28.64	-39.01	38.40	-67.24	-13.00	54.24	Vertical



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**Test Band = WCDMA Band IV\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2000	40.99	-46.25	28.61	-71.92	-13.00	58.92	Horizontal
2	4274.25	41.36	-45.60	29.76	-69.74	-13.00	56.74	Horizontal
3	5257.8000	38.61	-45.17	32.02	-69.80	-13.00	56.80	Horizontal
4	7010.4000	37.57	-43.62	35.23	-66.08	-13.00	53.08	Horizontal
5	8763.0000	32.93	-41.41	36.42	-67.32	-13.00	54.32	Horizontal
6	10515.6000	28.84	-38.75	38.46	-66.71	-13.00	53.71	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2000	41.49	-46.25	28.61	-71.42	-13.00	58.42	Vertical
2	4501.5	41.13	-45.71	30.30	-69.54	-13.00	56.54	Vertical
3	5257.8000	38.41	-45.17	32.02	-70.00	-13.00	57.00	Vertical
4	7010.4000	37.67	-43.62	35.23	-65.98	-13.00	52.98	Vertical
5	8763.0000	33.10	-41.41	36.42	-67.15	-13.00	54.15	Vertical
6	10515.6000	28.77	-38.75	38.46	-66.78	-13.00	53.78	Vertical



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**Test Band = WCDMA Band V\_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1323.4286	43.89	-48.10	25.14	-74.33	-13.00	61.33	Horizontal
2	1652.8000	41.72	-48.22	25.28	-76.48	-13.00	63.48	Horizontal
3	2479.2000	41.47	-47.31	27.24	-73.85	-13.00	60.85	Horizontal
4	3305.6000	41.60	-46.67	28.48	-71.85	-13.00	58.85	Horizontal
5	4132.0000	40.27	-45.92	29.42	-71.49	-13.00	58.49	Horizontal
6	4958.4000	40.40	-45.72	31.31	-69.27	-13.00	56.27	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1359.4286	44.49	-48.05	25.12	-73.70	-13.00	60.70	Vertical
2	1652.8000	43.08	-48.22	25.28	-75.12	-13.00	62.12	Vertical
3	2479.2000	42.01	-47.31	27.24	-73.31	-13.00	60.31	Vertical
4	3305.6000	42.53	-46.67	28.48	-70.92	-13.00	57.92	Vertical
5	4132.0000	40.36	-45.92	29.42	-71.40	-13.00	58.40	Vertical
6	4958.4000	41.12	-45.72	31.31	-68.55	-13.00	55.55	Vertical



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**Test Band = WCDMA Band V\_ TM1**  
**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1280	44.19	-48.22	25.16	-74.13	-13.00	61.13	Horizontal
2	1672.8000	41.89	-48.19	25.31	-76.25	-13.00	63.25	Horizontal
3	2509.2000	41.83	-47.24	27.32	-73.35	-13.00	60.35	Horizontal
4	3345.6000	41.76	-46.62	28.51	-71.61	-13.00	58.61	Horizontal
5	4182.0000	39.40	-45.95	29.54	-72.27	-13.00	59.27	Horizontal
6	5018.4000	39.91	-45.73	31.45	-69.63	-13.00	56.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1236	44.77	-48.41	25.18	-73.72	-13.00	60.72	Vertical
2	1672.8000	42.36	-48.19	25.31	-75.78	-13.00	62.78	Vertical
3	2509.2000	42.89	-47.24	27.32	-72.29	-13.00	59.29	Vertical
4	3345.6000	42.20	-46.62	28.51	-71.17	-13.00	58.17	Vertical
5	4182.0000	39.56	-45.95	29.54	-72.11	-13.00	59.11	Vertical
6	5018.4000	40.06	-45.73	31.45	-69.48	-13.00	56.48	Vertical



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**Test Band = WCDMA Band V\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1285.1429	44.47	-48.20	25.16	-73.83	-13.00	60.83	Horizontal
2	1693.2000	42.19	-48.17	25.34	-75.90	-13.00	62.90	Horizontal
3	2539.8000	42.27	-47.13	27.38	-72.74	-13.00	59.74	Horizontal
4	3386.4000	41.02	-46.56	28.53	-72.27	-13.00	59.27	Horizontal
5	4233.0000	40.40	-45.90	29.66	-71.10	-13.00	58.10	Horizontal
6	5079.6000	39.52	-45.47	31.59	-69.61	-13.00	56.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1429	44.41	-48.04	25.11	-73.79	-13.00	60.79	Vertical
2	1693.2000	42.89	-48.17	25.34	-75.20	-13.00	62.20	Vertical
3	2539.8000	41.86	-47.13	27.38	-73.15	-13.00	60.15	Vertical
4	3386.4000	41.75	-46.56	28.53	-71.54	-13.00	58.54	Vertical
5	4233.0000	41.00	-45.90	29.66	-70.50	-13.00	57.50	Vertical
6	5079.6000	39.42	-45.47	31.59	-69.71	-13.00	56.71	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	VL	NT	1.35	0.000718	PASS
Band II	9400	VN	NT	1.70	0.000904	PASS
Band II	9400	VH	NT	1.48	0.000787	PASS
Band IV	1413	VL	NT	-3.40	-0.001962	PASS
Band IV	1413	VN	NT	-3.48	-0.002009	PASS
Band IV	1413	VH	NT	-4.27	-0.002465	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	-0.36	-0.000430	±2.5	PASS
Band V	4182	VN	NT	-0.20	-0.000239	±2.5	PASS
Band V	4182	VH	NT	0.13	0.000155	±2.5	PASS



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	1.74	0.000926	PASS
Band II	9400	NV	-20	1.41	0.000750	PASS
Band II	9400	NV	-10	1.60	0.000851	PASS
Band II	9400	NV	0	1.59	0.000846	PASS
Band II	9400	NV	10	1.21	0.000644	PASS
Band II	9400	NV	20	2.18	0.001160	PASS
Band II	9400	NV	30	1.80	0.000957	PASS
Band II	9400	NV	40	1.75	0.000931	PASS
Band II	9400	NV	50	-3.15	-0.001818	PASS
Band IV	1413	NV	-30	-3.35	-0.001934	PASS
Band IV	1413	NV	-20	-3.62	-0.002089	PASS
Band IV	1413	NV	-10	-3.71	-0.002141	PASS
Band IV	1413	NV	0	-4.05	-0.002338	PASS
Band IV	1413	NV	10	-4.10	-0.002366	PASS
Band IV	1413	NV	20	-3.51	-0.002026	PASS
Band IV	1413	NV	30	-3.44	-0.001985	PASS
Band IV	1413	NV	40	1.76	0.000925	PASS
Band IV	1413	NV	50	1.45	0.000752	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-0.57	-0.000681	±2.5	PASS
Band V	4182	NV	-20	-0.69	-0.000825	±2.5	PASS
Band V	4182	NV	-10	-0.15	-0.000179	±2.5	PASS
Band V	4182	NV	0	-0.34	-0.000407	±2.5	PASS
Band V	4182	NV	10	-0.35	-0.000418	±2.5	PASS
Band V	4182	NV	20	-0.46	-0.000550	±2.5	PASS
Band V	4182	NV	30	-0.47	-0.000562	±2.5	PASS
Band V	4182	NV	40	-0.62	-0.000741	±2.5	PASS
Band V	4182	NV	50	-0.52	-0.000676	±2.5	PASS

---End of Attachment---



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